

PHYSICS COMPETITIONS

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Delegations from 83 countries from all continents and important persons of Astana and Kazakhstan entering the grand hall to enjoy the opening ceremony of the International 45th Physics Olympiad 2014 in Astana, the capital of Kazakhstan.

Photo taken by Helmuth Mayr, head of the Austrian IPhO-delegation

The authors are responsible for all figures used in the articles.



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Aims of the Federation

- (1) To promote excellence in, and research associated with, physics education through the use of school physics competitions;
 - (2) To promote meetings and conferences where persons interested in physics contests can exchange and develop ideas of use in their countries;
 - (3) To provide opportunities for the exchanging of information for physics education through published material, notably through the Journal of the Federation;
 - (4) To recognize through the WFPPhC Awards system persons who have made notable contributions to physics education through physical challenge around the world;
 - (5) To organize assistance provided by countries with developed system for competitions for countries attempting to develop competitions;
 - (6) To promote physics and to encourage young physicists.
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Editorial

Dear Readers,

At the beginning of this Journal you can find a report on the Award of the WFPnC of 2014, presented to Guy Bagnall from the United Kingdom, for his outstanding work for the International Physics Olympiads.

His work will be an example to us !

Next you will find a report on the 6th Congress of our Federation. It took place at the University of Singapore from 2014-05-19 to 2014-05-23. We are going to publish lectures from the Congress in this Journal and the next ones.

Jan Mostowski from Poland gave a very interesting lecture on „Gedanken and real experiments“ and their importance for learning and understanding quantum physics.

Paul Pshenichka from the Ukraine wrote an article about his lecture, named “Kindergarten-Physics”. He describes very useful ways how to make children interested in phenomena of physics. On the basis of this interest, children can be encouraged to take part in different physics competitions. This way is done very successfully in the Ukraine.

After that you will find a rather short report on the 45th International Physics Olympiad taking place in Astana, the capital of Kazakhstan, from 2014-07-13 to 2014-07-21.

Finally you can find an article by Attila Teiermayer / Hungary about physics problems of interdisciplinary character, useful in teaching secondary school students to enable them to take part in competitions.

I do hope you will enjoy this Journal.

We invite you to publish your activities in connection with any kind of competition in physics for secondary school students and ask you to take part in the worldwide activities of our Federation.

Thank you!



(Helmut Mayr)